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TITLE: RADIO-WAVE ABSORBER

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ABSTRACT:

PROBLEM TO BE SOLVED: To contrive reduction in the thickness of a radio-wave absorber without reducing the radio-wave absorption characteristics of the absorber even in a short-wavelength frequency range by a method wherein a cellulose derivative is used as a dielectric layer and a metallic oxide film, a metallic nitride film or a thin film containing the mixture of these of a metallic oxide and a metallic nitride is formed on at least one surface of this dielectric layer as a resistor film.

SOLUTION: As a cellulose derivate which is used as a

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dielectric layer 1, a cellulose ester and a cellulose ether, which are obtained by esterifying and etherifying a cellulose hydroxyl group, for example, are respectively used.

The orientation of the cellulose derivate is controlled by a Pauling treatment using an electric field, whereby the specific dielectric constant of this derivative is made to enhance and a thin radio-wave absorber can be obtained.

As a metallic oxide film and a metallic nitride film, which are used as a resistor film 2, an ITO film, a tin oxide film, a zinc oxide film, a titanium oxide film and the like, for example, can be illustrated.

The absorber is formed into a laminated structure, wherein the film 2 is formed on at least one surface of the layer 1 and both surfaces of this absorber are respectively protected with protective films 4 and 5, and the reduction in the thickness of the absorber is contrived.

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